

WHAT IS CLAIMED IS:

1. An active matrix organic electroluminescent panel,
comprising:

a substrate;

5 a plurality of functional elements located over the substrate;

a plurality of organic electroluminescent devices disposed over the
substrate; wherein the organic electroluminescent device comprised, in
sequence, a first electrode, at least one organic electroluminescent media
and a second electrode; and

10 a plurality of conductive lines disposed over the surface of the
substrate to connect the and/or organic electroluminescent devices;

wherein

the conductive lines comprise silver-copper alloy.

2. The active matrix organic electroluminescent panel as claimed
15 in claim 1, wherein the silver-copper alloy comprises 80 to 99.8 mol% of
silver, 0.1 to 10 mol% of copper, and 0.1 to 10 mol% of transition metal
selected from the group consisting of palladium, magnesium, gold,
platinum, and the combinations thereof, and the total mol% of the
silver-copper alloy is 100.

20 3. The active matrix organic electroluminescent panel as claimed
in claim 1, wherein the silver-copper alloy further comprises at least one
adhesion improver selected from the group consisting of titanium,
aluminum, nickel, cobalt, and chromium.

4. The active matrix organic electroluminescent panel as claimed

in claim 3, wherein the mole percentage of the adhesion improver ranges from 0.01 to 5.

5 5. The active matrix organic electroluminescent panel as claimed in claim 1 further comprising a buffer layer disposed over the surface of the substrate.

6. The active matrix organic electroluminescent panel as claimed in claim 5, wherein the buffer layer is made of silicon nitrides, silicon oxides, or silicon oxynitride.

10 7. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the second electrode is made of aluminum, silver, aluminum-magnesium alloy, or silver-magnesium alloy.

15 8. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the organic electroluminescent medium comprises an electron injecting layer, an electron transporting layer, an organic electroluminescent layer, a hole transporting layer, a hole injecting layer, and the combinations thereof located between the second electrode and the first electrode.

9. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the first electrode is a transparent electrode.

20 10. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the first electrode is made of InSnO_3 , indium tin oxide (ITO), aluminum zinc oxide (AZO), indium zinc oxide (IZO), SnO_2 , ZnO-doped In_2O_3 , CdSnO, or antimony.

11. The active matrix organic electroluminescent panel as claimed

in claim 1, wherein there is at least one dielectric passivation layer disposed between the conductive lines.

12. The active matrix organic electroluminescent panel as claimed in claim 11, wherein the dielectric passivation layer is made of polyimide,
5 acrylic resins, fluoric resins, epoxy resins, silicon oxide, silicon nitride, or silicon oxynitride.

13. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the functional element is a transistor comprising a source, a gate and a drain having staggered, inverted staggered, coplanar, or
10 inverted coplanar arrangement.

14. The active matrix organic electroluminescent panel as claimed in claim 13, wherein the gate and/or the drain are made of polysilicon.

15. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the functional element comprises a capacitor.

15 16. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the functional element comprises two sets of drains, sources and gates, and a capacitor.

17. The active matrix organic electroluminescent panel as claimed in claim 1 further comprising a connecting conductive line, which connects
20 the functional elements and comprises the silver-copper alloy.

18. The active matrix organic electroluminescent panel as claimed in claim 1, further comprising at least an insulating layer.

19. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the substrate is a glass substrate, a plastic substrate, or a

transparent resin plate.

20. The active matrix organic electroluminescent panel as claimed in claim 1, wherein the substrate is made of polycarbonate, polyethylene terephthalate (PET), cyclic olefin copolymer (COC), or metal-containing
5 cyclic olefin copolymer (m-COC).

21. The active matrix organic electroluminescent panel as claimed in claim 1, wherein conductive line is power conducting line, gate conducting line and/or source conducting line.